



PROVISIONAL PROGRAM

Tuesday November 24th

Time	Venue	Venue
17.00-19.30	Registration	Hotel Taburiente Playa
18.00-19.00	IPA Board meeting	Hotel Taburiente Playa
19.30-21.00	Welcome reception	Hotel Taburiente Playa

Wednesday November 25th

Visit to the north of the island

Time	Location	Location/Venue
8.30 am	Buses leave	Hotel Taburiente Playa
10.00-12.00	Garafía	José B. Fernández Farm Agroprot Garafía Farm
12.00-13.30	Barlovento	Wilber J. Avila Farm María I. Rodríguez Farm
13.30-17.00	Puntallana	Lunch Ecofarm Nogales
17.00	Buses departure to the hotel	

Thursday November 26th

Visit to the east and west of the island

Time	Location	Location/Venue
8.30 am	Buses leave	Hotel Taburiente Playa
9.15-13.00	El Paso	Pablo Yanes Farm Daniel Martín Farm Caldera Taburiente Visitor Center of Caldera of Taburiente
13.00-13.30	Breña Alta	Proteas La Palma Farm and packing facilities
15.30	Buses departure to the hotel	

The organization will give the participants a bag with some snacks and drinks (water and juice) to take during the visits, there are no stops at restaurants this day.

Time	Location	Location/Venue
19.00 am	Buses leave	Hotel Taburiente Playa
19.00-21.30	Breña Alta	Casa Osmunda Restaurant
21.30	Buses departure to the hotel	



Friday November 27th

IPA Workshop 1: Crop management in the production areas

Time	Presenter	Title	Institution
8.00-8.30	José Adrián Hdez. Laura García Yanes	Councillor for Agriculture Director La Palma- Hierro	La Palma Council La Caixa Bank
8.30-9.00 am	Antonio Barreiros Domíngues	Main pests and diseases of the Proteas crop in the Azores. Control strategies.	Servicio Desenvolvimiento Agrario Terceira – Azores
9.00-9.30	María Leandro	Propagation methods in the cultivation of Proteas	Flora United Farm Portugal Lda
9.30-10.00	Gerald Malan	General situation and trends of Protea cultivation in South Africa	Fynflor, South Africa
10.00-10.30	Ben Gill	Cultivation of the Proteas crop in the USA	Proteas crop consultant, California
10.30-11.00	Morning coffee		

IPA Workshop 2: New cultivars and marketing

Time	Presenter	Title	Institution
11.00-11.30 am	Olga Keijser	Trends in the Proteas market at a global level. How the Dutch auction works.	Coloríngz, Netherlands
11.30-12.00	Olga Keijser	Quality certification in the cut flower sector	Coloríngz, Netherlands
12.00-12.30	Tiago Fleitas	Classification and marketing of proteas. Experience of Fruter Coop, Island of Terceira, Azores.	FruterCoop, Azores
12.30-13.00	Francisco Molina	Classification and marketing of proteas. Experience of Proteas de La Palma, Island of La Palma, Canary Islands	Proteas La Palma, Canary Islands, Spain
13.00-13.30	María Guzmán	Experience with new protea cultivars. Ayobas Group	Proteas La Palma, Canary Islands, Spain
13.30-15.30	Lunch Hotel Taburiente Playa		



15.30-16.30	Ismael Resendiz	Reports of the proteas production areas	International Protea Association
16.30-18.00	Ismael Resendiz	Assembly of IPA	International Protea Association
19.30	Flight to Tenerife		
20.30	Arrival of buses to the Nivaria Hotel, La Laguna		

Saturday November 28th

Visits to protea farms

Time	Location	Location/Venue
9.00 am	Buses leave	Hotel Nivaria
9.30-12.30	La Laguna El Sauzal	Adrián Pérez Farm Pedro Barbuzano Farm
12.45	Buses arrive	Hotel Nivaria
13.00-15.00	Lunch	Hotel Nivaria

Symposium Sessions

Time	Session	Presenter	Title	Institution
16.00-16.30	Welcome	Ismael Resendiz, President Intern. Protea Assoc. (IPA)	Conference opening words from IPA	International Protea Assoc.
16.30-16.40	ISHS activities	Dr. Margherita Beruto	Activities of the ISHS Division Ornamentals Plants	Chair of the ISHS Division Ornamental Plants
16.40-17.10	Afternoon coffee			
17.10-17.55	Session 1 Propagation Keynote speaker	Juan F. Pérez Francés	Proteas micropropagation - A review	La Laguna University, La Laguna, Tenerife
17.55-18.15		María C. Vera Batista	Effect of Wounding and Reduction of Foliar Area of the Scions on Cutting-grafting of <i>Leucospermum</i> 'Rigoletto' on <i>L. patersonii</i>	La Laguna University, La Laguna, Tenerife
18.15-19.00	ISHS business meeting	Dr. Magherita Beruto	Next symposium venue and convener. Chair of the IPWG.	ISHS
18.15-19.00	Poster setup			



Sunday November 29th

Morning session

Time	Session	Presenter	Title	Institution
9.00-9.45 am	Session 2 Breeding Keynote speaker	Kenneth W. Leonhardt	Breeding <i>Leucospermum</i> for improved horticultural characteristics, disease tolerance and cultivation in tropical climates	Dept of Horticulture, University of Hawaii, 3190 Maile Way, Rm 102, Honolulu, HI 96822-2232, U.S.A.
9.45-10.05		Isidoro Rodríguez- Hernández	Breeding of <i>Leucospermum</i> to Obtain Clayey and / or Alkaline-clayey Soil Tolerance Hybrids	La Laguna University, Tenerife, Spain
10.05-10.50	Session 3 Crop Management: Nutrition and Irrigation Keynote speaker	Avner Silber	Evolutionary adaptation of plants to phosphorus deficiency: the multifaceted role of proteoid roots	Inst. Soil, Water & Environm. Sci., ARO, The Volcani Center, Bet Dagan 50250, Israel
10.50-11.20	Morning coffee			
11.20-12.05	Session 4 Crop Management: Pruning, flowering and production Keynote speaker	D.G. Malan	Pruning cut-flower protea	Fynflor, Kleineweide 4, Stellenbosch 7600 South Africa
12.05-12.25		Flavia Schiappacasse	Manipulating flowering time of <i>Protea</i> 'Pink Ice' in Chile to prevent bud freeze injury	University of Talca, Facultad de Ciencias Agrarias, Casilla 747, Talca Chile
12.25-12.45		N. Hattingh	Phenological studies of <i>Protea</i> <i>cynaroides</i> (L.) 'A. Ice' following a synchronising winter pruning regime	Stellenbosch University, South Africa
12.45-13.05		Eugenie-Lien Louw	Curvature development in vegetative <i>Leucospermum</i> 'Soleil' and 'Succession II' shoots in response to gravity and a consistent force	Arnelia Farms, Technical Manager, PO Box 63, 7355 Hopefield, South Africa
13.05-15.00	Lunch Hotel Nivaria			



Afternoon session

Time	Session	Presenter	Title	Institution
15.00-16.00	Poster session			
16.00-16.20		Antonio López Cappa	ASOCAN and Current Canaries <i>Proteaceae</i> Production: Achievements and Challenges	ASOCAN, Canary Islands, Tenerife, Spain
16.20-16.40		M. L. Fuertes	Agricultural biodiversity, proteas as instrument of integral development in the protection space Seven Lomas, southeast of Tenerife, Canary Islands	Calle Mendez Nuñez 17 Bajo, 38003 Tenerife Santa Cruz de Tenerife
16.40-17.10	Afternoon coffee			
17.10-17.55	Session 5 Postharvest Keynote speaker	Lynn Hoffman	Recent advances in postharvest research for <i>Proteaceae</i> ornamentals	Department of Horticultural Science, Stellenbosch University, 7600 Western Cape Stellenbosch, S.Africa
17.55-18.15		Rolf Timmerman	Chrysal viva as a postharvest treatment to improve leaf and inflorescence quality in various protea species	Gooimeer 7, 1411DD Naarden, Netherlands
18.15-19.00	Session 6 Plant protection Keynote speaker	María Leandro	<i>Proteaceae</i> Plant Protection - An Overview from Portugal	Flora United, Portugal
19.00- 19.20		Antonio Domingues	Calendar of risk occurrence for pests and diseases most common in <i>Proteaceae</i> in the Azores islands	SDAT, Vinha Brava, Conceição, 9701-880 Angra do Heroísmo Azores, Portugal
19.20-19.40		Enrique Huertas	Risk map of the main diseases and pests that affect the cultivation of proteas in the Canary Islands	La Palma Council, La Palma, Spain
21.00	Closing dinner Casino La Laguna			



Posters

<p>A.M. de León-Hernández¹, M.C. Vera-Batista¹, V. Herrera-González¹, M. Hernández², I. Rodríguez-Hernández¹ and J.A. Rodríguez-Pérez¹</p>	<p>Propagation by grafting on <i>Leucospermum patersonii</i> and <i>L. 'Spider'</i> of <i>Leucospermum</i> cultivars: 'Anouk', 'Raziya', 'Succession I' and 'Themba'</p>	<p>¹Department of Agricultural, Nautical, Civil and Marine Engineering, University of La Laguna, Tenerife, Spain; ²Instituto de Productos Naturales y Agrobiología, Consejo Superior de Investigaciones Científicas, Avenida Astrofísico Francisco Sánchez ,3, La Laguna, 38206, Tenerife, Spain.</p>
<p>A.M. de León-Hernández^{1,a}, M.C. Vera-Batista¹, V. Herrera-González¹, M. Hernández², I. Rodríguez-Hernández¹ and J.A. Rodríguez-Pérez¹</p>	<p>Propagation by cutting-grafting on <i>Leucospermum patersonii</i> of <i>Leucospermum</i> cultivars: 'Anouk', 'Raziya', 'Succession I' and 'Themba'</p>	<p>¹Department of Agricultural, Nautical, Civil and Marine Engineering, , University of La Laguna, Tenerife, Spain; ²Instituto de Productos Naturales y Agrobiología, Consejo Supesior de Investigaciones Científicas, Avenida Astrofísico Francisco Sánchez ,3, La Laguna, 38206, Tenerife, Spain.</p>
<p>Maria Candelaria Vera-Batista¹, M. Carmen Alfayate², Emma Suárez³, Zuleima González², Isabel Hernández¹, Andrea Lozano², Patricia Marrero²,</p>	<p>Structural and ultrastructural study of leaf and stem of six cultivars of <i>Leucadendron</i> (R.Br.) and <i>Leucospermum</i> (R.Br.) genera (<i>Proteacea e</i>)</p>	<p>¹Department of Agricultural, Nautical, Civil and Marine Engineering; ³Faculty of Pharmacy; ²Faculty of Biology, La Laguna University, Tenerife, Spain</p>
<p>Maria Candelaria Vera-Batista¹, Emma Suárez³ Isabel Hernández¹, Yaiza Chávez² Andrea Lozano², Patricia Marrero², M. Carmen Alfayate²</p>	<p>Vegetative Propagation of <i>Leucospermum</i> R.Br.: a comparative study at the developmental and tissue levels after different treatments</p>	<p>¹Department of Agricultural, Nautical, Civil and Marine Engineering; ³Faculty of Pharmacy; ²Faculty of Biology, La Laguna University, Tenerife, Spain</p>
<p>Maria Candelaria Vera-Batista¹, Emma Suárez², J. A. Rodríguez-Pérez¹, M. Carmen Alfayate³, and I. Frías⁴</p>	<p>Peroxidases as biochemical markers for rooting in some species and cultivars of two <i>Proteaceae</i> genera</p>	<p>¹Department of Agricultural, Nautical, Civil and Marine Engineering; ²Faculty of Pharmacy; ³Faculty of Biology; ⁴Faculty of Sciences, La Laguna University, Tenerife, Spain</p>
<p>I. Rodríguez-Hernández^{1a}, M.C. Vera-Batista¹, A.M. de León-Hernández¹, M. González-Hernández¹ and J.A. Rodríguez-Pérez¹.</p>	<p>Cutting grafting of <i>Leucospermum</i> 'Tango' on <i>L. 'Spider'</i>. Effect of wounding, rooting media, and reduction of foliar area of the scion.</p>	<p>¹Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, La Laguna, Tenerife, Spain.</p>



XIV INTERNATIONAL PROTEA
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24 - 29 NOVEMBER 2020

CANARY ISLANDS
LA PALMA - TENERIFE
SPAIN



I. Rodríguez-Hernández ¹ , M.C. Vera-Batista ¹ , A.M. de León-Hernández ¹ and J.A. Rodríguez-Pérez ¹ .	Effects of pretreatment of mother plants with BA and concentration of IBA on rooting of <i>Leucospermum</i> 'Succession II' stem cuttings	¹ Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.
J.A. Rodríguez-Pérez ¹ , A.M. de León-Hernández ¹ and M. Hernández ²	Influence of clay soil on two <i>Leucospermum</i> cultivars planted directly or grafted on clay-soil resistant rootstock. Study of Na and micronutrient nutrition.	¹ Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.
J.A. Rodríguez-Pérez ¹ , A.M. de León-Hernández ¹ , M. Hernández ² , M.C. Vera-Batista ¹ , and I. Rodríguez-Hernández ¹	Influence of clay soil on two <i>Leucospermum</i> cultivars planted directly or grafted on clay-soil resistant rootstock. Study of plant growth and cut flowers production.	¹ Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.